

CLAIMS

What is claimed is:

1. A flashlight lamp circuit with automatic light adjustment, comprising:
 - a flashlight lamp charging circuit, controlling charging of a main capacitor, and
5 determining start and stop of charging according to a voltage level of the main capacitor so that the main capacitor is in a workable status;
 - a flashlight activation unit, receiving a flashlight activation signal from a user when the main capacitor is in a workable status, and executing flashlight activation according to the flashlight activation signal;
 - 10 a flashlight lamp, emitting a flashlight on a photographed object according to the flashlight activation signal;
 - a light sensor, receiving and converting a light from the photographed object into a first electric signal;
 - an integral circuit, receiving the first electric signal from the light sensor and
15 outputting a second electric signal proportional to the amount of flashlight, wherein the integral circuit includes a light adjusting resistor for adjusting the resistance and output of the integral circuit; and
 - a flashlight control unit, receiving the second electric signal from the integral circuit, wherein the flashlight control unit extinguishes the flashlight lamp when an amount of light
20 corresponding to the level of the second electric signal reaches a required light exposure.
2. The circuit according to claim 1, wherein a range of the workable status is between 270V~300V.
3. The circuit according to claim 1, wherein the flashlight activation unit is a DC

converter.

4. The circuit according to claim 3, wherein the DC converter includes a Darlington circuit, and an electric current of the Darlington circuit controls the capacitor charging speed.

5 5. The circuit according to claim 4, wherein the electric current of the Darlington circuit is controlled by means of a resistor.

6. The circuit according to claim 1, wherein the flashlight activation unit further includes a fast switch diode.